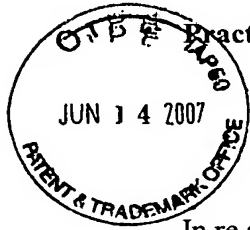


Tfu



Practitioner's Docket No. U 016340-0

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Tsuneo **KONDO**, et al

Serial No.: 10/582,472

Group No.: 1742

Filed: February 8, 2007

Examiner: - -

For: **POURED MOLTEN METAL QUANTITY CONTROL DEVICE**

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

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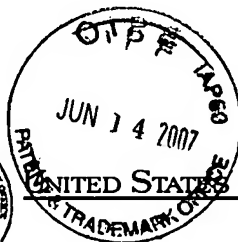
SIGNATURE OF PRACTITIONER

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Applicant(s)

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Power of Attorney: The patent practitioners associated with Customer Number 140.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/19071 12/21/2004

Foreign Applications

JAPAN 2003-437231 12/24/2003

If Required, Foreign Filing License Granted: 04/24/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/582,472**

Projected Publication Date: 08/02/2007

Non-Publication Request: No

Early Publication Request: No

Title

Poured molten metal quantity control device

Preliminary Class

222

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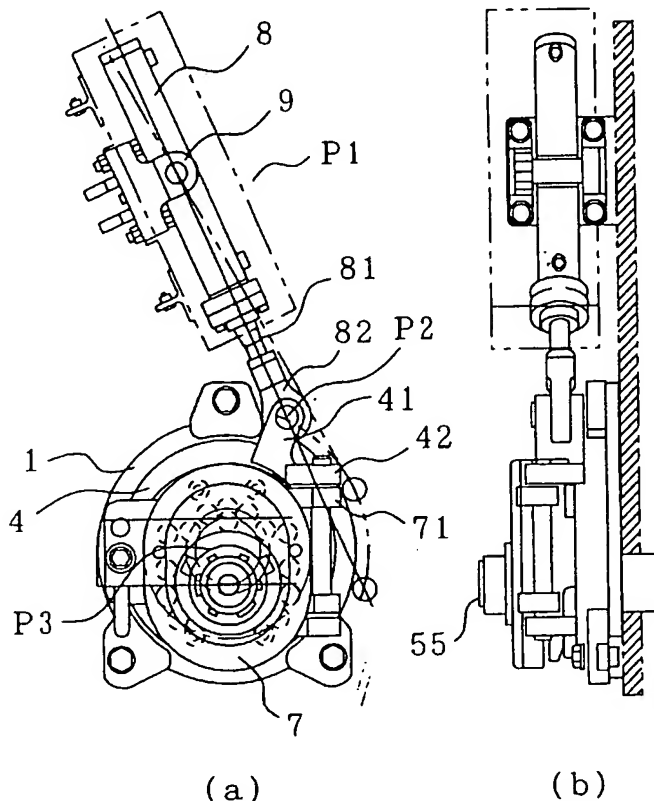
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(54) Title: POURED MOLTEN METAL QUANTITY CONTROL DEVICE

(54) 発明の名称: 溶融金属の注湯流量制御装置



(57) Abstract: A poured quantity control device, co brick, a collector nozzle b plate brick hold thereb which has at least one molt hole, an outer race installed on the outer peripheral side of the fixed plate brick by an extensible unit, and a frame having the slide plate brick fitted on the outer race so as to be opened and closed through hinges. The frame can be opened and closed through the hinges independently of a rotating means operated by the extensible unit. The outer race is rotated by a crank mechanism having triangulation points comprising an indication pivot (P1), a rotating center (P3), and a pivot (P2). The positions of the triangulation points are set to match the fully opened and fully closed positions of the molten metal pouring hole, and the stroke end and start positions of the extensible unit.

(57) 要約: 少なくとも1孔の注湯口を有する、固定レンガ、コレクタノズルレンガ、これらに挟設されたスライド板レンガと、固定板レンガの外周側に伸縮ユニットによる回転可能に装着されたアウトレースと、アウトレースに

蝶番ヒンジにより開閉可能に取り付けられたスライド板レンガを装着したフレームを備えており、フレームの蝶番ヒンジによる開閉が、伸縮ユニットによる回転手段と関係なく開閉可能であり、且つ、前記アウトレースの回転が、指示ピボットP1、回転中心P3、ピボットP2を三角点とするクランク機構により回転され、該三角点位置が、注湯口の全開、全閉位置と伸縮ユニットのストロークの終点位置と、始点位置と合致するようにされた溶融金属の注湯流量制御装置。